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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,825	09/22/2006	Jean-Michel Cour	0501-1168	4451
<small>465</small> YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314			<small>7590</small> EXAMINER BOATING, ALEXIS ASTEDUA	
			<small>ART UNIT</small> 2858	<small>PAPER NUMBER</small>
			<small>MAIL DATE</small> 09/28/2009	<small>DELIVERY MODE</small> PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/593,825

**Applicant(s)**

COUR, JEAN-MICHEL

**Examiner**

Alexis Boateng

**Art Unit**

2858

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 04 June 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 9-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 9-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SF/ICE)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 9-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto (U.S. 5,811,958) in view of Kinoshita (U.S. 6,157,165).

**Regarding claims 9 - 18**, Yamamoto discloses wherein a method for charging a battery from a direct-current source liable to significant fluctuations, comprising the repetitive steps of:

converting the DC voltage from said direct-current source into a DC voltage which is higher than the voltage of said battery (figure1 item 4),  
applying said higher DC voltage to the terminals of a storage capacitor, so as to transfer energy into said storage capacitor (column 5 lines 52 – column 6 lines 6), detecting a predetermined voltage threshold over the terminals of said storage capacitor (figure 5, items b-d disclose a voltmeter). Yamamoto discloses monitoring the voltage, but does not disclose detecting a predetermined voltage threshold. Kinoshita discloses in column 14 lines 42 - 61 wherein a voltage threshold is determined, and upon detection of said voltage threshold, connecting said storage capacitor to said battery during a predetermined time, so as to discharging transfer energy from said storage capacitor into said battery.

Kinoshita discloses wherein the voltage discharge is monitored from battery to charge the capacitor. It would have been obvious to a person of ordinary skill in the art to modify the Yamamoto system with the Kinoshita system so that the capacitor is not damaged with overdischarging or overcharging.

### ***Response to Arguments***

3. Applicant's arguments filed 6/01/09 have been fully considered but they are not persuasive. **Regarding claim 9**, the applicants argue that the Kinoshita system does not disclose a specific method or system for charging batteries. Kinoshita discloses in column 3 lines 24 - 25 wherein a battery is a direct current source. The batteries charge the capacitors as disclosed in column 3 line 65 – column 4 line 4. The applicant argues that the Yamamoto reference does not disclose “detecting a predetermined voltage threshold over the terminals of said storage capacitor” nor the step of “upon detection of said voltage threshold, connecting said storage capacitor to said battery during a predetermined time, so as to transfer energy from said storage capacitor into battery.”

### ***Conclusion***

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexis Boateng whose telephone number is (571) 272-5979. The examiner can normally be reached on 8:30 am - 6:00 pm, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Assouad can be reached on (571) 272-2210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/Edward Tso/  
Primary Examiner, Art Unit 2858

AB